

CHIGIRINSKIY, A. N. (Leningrad)

Role of changes in the hormonal activity of the adrenal cortex
in the mechanism of the inhibition of the leukocyte reaction
in chilling. Arkh. pat. no.9:60-64 '61. (MIRA 15:6)

1. Iz kafedry patologicheskoy fiziologii (nach. - deystvitel'nyy
chlen AMN SSSR prof. I. R. Petrov) Voenno-meditsinskoy ordena
Lenina akademii imeni S. M. Kirova.

(LEUKOCYTES) (ADRENAL CORTEX)
(COLD—PHYSIOLOGICAL EFFECT)

CHIGIRINSKIY, A.N. (Leningrad)

Pulmonary damage in prolonged corticosteroid therapy. Klin.med.
no.12:100-102 '61. (MIRA 15:9)

1. In kafedry fakul'tetskoy terapii (nachal'nik - prof. V.A.
Beyyer) Voenno-meditsinskoy ordena Lenina akademii imeni
S.M. Kirova.

(LUNGS--DISEASES) (CORTICOSTEROIDS)

CHIGIRINSKIY, A. N.; KRYLOV, A. A.

Effect of sulfanilamides on the blood system. Probl. gemat. i
perel. krovi no.4:47-49 '62. (MIRA 15:4)

1. Iz kafedry fakul'tetskoy terapii (nach. - prof. V. A. Beyyer)
Voyenno-meditsinskoy ordena Lenina akademii imeni S. M. Kirova.

(SULFANILAMIDES) (HEMOPOIETIC SYSTEM)

CHIGIRINSKIY, A.N.

Immune syndrome, bone marrow plasmocytic reaction and dysproteinemia in a patient with purpura hemorrhagica with an unusual course. Probl. gemat. i perel. krovi 8 no.12: 47-49 D '63. (MIRA 17:9)

1. Iz kafedry voyenno-morskoy i gospi'tal'noy terapii (nachal'-nik- prof. Z.M. Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova).

KRYLOV, A.A.; KUZNECHIKOV, V.P.; SUVOROV, I.M.; CHIGIRINSKIY, A.N.

Hypoplastic states in hematopoiesis as a preceding stage of acute leukemia. Probl. gemat. i perel. krovi 9 no.1:47-48
Ja '64. (MIRA 18:1)

1. Iz kafedry voyenno-morskoy i gospi'tal'noy terapii (nachal'-
nik - prof. Z.M. Volynskiy) Voenno-meditsinskoy ordena Lenina
akademii imeni S.M. Kirova.

KRYLOV, A.A., kand. med. nauk; CHIGIRINSKIY, A.N.

Diagnostic errors in multiple myeloma. Sov. med. 27 no.8:
68-72 Ag '64. (MIRA 18:3)

1. Kafedra voyenno-morskoy i gospital'noy terapii (nachal'nik-
prof. Z.M. Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii
imeni Kirova i kafedra patologicheskoy anatomii (zav.-prof.
P.V. Sipovskiy) Leningradskogo ordena Lenina instituta
usovershenstvovaniya vrachey imeni Kirova.

CHIGIRINSKIY, A.N.

Treatment of multiple myelomas with sarcolysine, ACTH and corticosteroids. Vop. onk. 11 no.3:118-121 '65.

(MIRA 18:6)

1. Iz kliniki voyenno-morskoy i gosital'noy terapii (nachal'nik - prof. Z.M. Volynskiy) Voenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

CHIGIRINSKIY, A.N.

Hemoprotective active of ACTH and glucocorticoids in salcolysine therapy of multiple myeloma. Probl. gemat. i perel. krovi no.6:20-23 '65. (MIRA 18:11)

1. Kafedra voyenno-morskoy i gospi'tal'noy terapii (nachal'nik - prof. Z.M.Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

VOLYNSKIY, Z.M., prof.; SIPOVSKIY, P.V., prof. [deceased]; COGIN, Ye.Ye.;
CHIGIRINSKIY, A.N.

Statistical data on the frequency of the incidence of pericardial diseases. Kardiologiya 5 no.2:45-51 Mr-Apr '65.

(MIRA 18:7)

1. Kafedra voyenno-morskoy i gospital'noy terapii (nachal'nik prof. Z.M.Volynskiy) Voennomeditsinskoy ordena Lenina akademii imeni S.M.Kirova i kafedra patologicheskoy anatomii (zav. - prof. P.V.Sipovskiy [deceased]) Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M.Kirova.

TOGUNOVA, A.I., prof.; CHIGIRINSKIY, A.Ye.

Morphological reaction of the animal organism to the administration of chemical complexes of Mycobacterium tuberculosis. Probl. tub. no.7:72-78 '62.
(MIRA 15:12)

1. Iz laboratorii tuberkuleza Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei (dir. - prof. O.V.Karoyan)
AMN SSSR, Moskva.

(ANTIGENS AND ANTIBODIES) (MYCOBACTERIUM TUBERCULOSIS)

TOGUNOVA, A.I.; CHIGIRINSKIY, A.Ye.

Morphology of the vaccinal process in combined epicutaneous immunization against tuberculosis and tularemia under experimental conditions. Zhur. mikrobiol., epid. i imm. 41 no. 2:35-38 (MIRA 17:9) F '64.

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SOLOSHENKO, I.Z.; CHIGIRINSKIY, A.Ye.; SEMENOVA, L.P.

Experimental study on the susceptibility of small mammals to *Leptospira* of various serological types. Report No.3: Morphological changes in the organs of white mice caused by *Leptospira grippotyphosa* and *sejroe*. Zhur.mikrobiol., epid. i immun. 42 no.9:142-143 S '65.

(MIRA 18:12)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. Submitted June 3, 1964.

CHIGIRINSKIY, I.M.

Combination of Ollier's disease with partial gigantism. Ortop.,
travn. i protez. 18 no.1:67 Ja⁷ '57. (MIRA 10:6)

1. Iz kliniki fakul'tetskoy khirurgii (sav. - prof. G.S.Toprover)
Stalingradskogo meditsinskogo instituta (dir. - prof. V.S.Yurov).
(DYSCHONDROPLASIA, compl.

Ollier's. dis. with gigantism of left foot)
(GIGANTISM, case reports
foot, in Ollier's dis.)

CHIGIRINSKIY, L.M.

Cases of dystopia of the breast. Vest. khir. 94 no.1:119 Ja '65.
(MIRA 18:7)

1. Iz khirurgicheskogo otdeleniya (zav - Z.N.Goryavina) Volzhskogo
gorodskogo onkologicheskogo dispansera.

RZHAVSKIY, Yefim L'vovich. Prinimal uchastiye CHIGIRINSKIY,
~~M.Kh.~~, inzh.

[Operation of river tank farms] Eksploatatsia rechnykh
neftebaz. Moskva, Nedra, 1964. 159 p. (MIRA 17:12)

CHIGIRINSKIY, P.F.

Calculating water discharge by means of lattice nomograms of
 $H = f(AH)$ curves labeled by Q. Trudy GGI no.36:54-57 '52.
(MIRA 11:6)

1. Kuybyshevskoye upravleniye gidrometeorologicheskoy sluzhby.
(Stream measurements)

CHIGIRINSKIY, P.P.
~~CHIGIRINSKIY, P.P.~~

Computing flow in controlled rivers. Meteor. i gidrol. no.1:
45-46 Ja '53. (MIRA 8:9)

1. Agrometeorologicheskaya observatoriya, Kuybyshev.
(Stream measurements)

CHIGIRINSKIY, P. F.

AID P - 1866

Subject : USSR/Meteorology and Hydrology

Card 1/1 Pub. 71-a - 9/26

Author : Chigirinskiy, P. F.

Title : ~~Elements of spring-thaw irrigation in bordered fields~~
Elements of spring-thaw irrigation in bordered fields
Mett. i Gidrol., no. 2, 31-33 - 1953

Periodical : Spring-thaw irrigation is done by collecting melted snow over a certain period in a walled-in field. The fields mentioned in the article are bordered with trees. A survey was made in the spring of 1953 to determine the irrigation rate. Some recommendations are made, i.e., it is suggested that snowbanks be used to retain water in the fields. One diagram is given. One Russian reference, 1952.

Institution : None

Submitted : No date

3 (9)

AUTHOR:

Chigirinskiy, P. F.

SOV/50-59-4-1/21

TITLE:

Considering the Influence of the Lee Shore on the Height of a Wave (Ob uchete vliyaniya podvetrennogo berega na vysotu volny)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 4, pp 46-47 (USSR)

ABSTRACT:

In determining the height of wind waves, the wind velocity over an open water surface is assumed on the supposition that the wind intensity remains the same along the calculated profile for its whole length. This supposition is correct for the sea but not for water basins, particularly in deep valleys. Some examples are given here which show that the lee shore greatly affects the wave height. In compiling the atlas of wind waves for the water basin of the Volzhskaya GES im. V. I. Lenina (Volga Hydroelectric Power Station imeni V. I. Lenin), the problem of considering the influence of shores on the height of wind waves had to be solved at once. There were no recommendations or references on this problem in literature. In spite of the large surface area of

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6500 km², the basin is very narrow, its length to Cheboksary

Considering the Influence of the Lee Shore on the
Height of a Wave

SOV/50-59-4-10/21

is 500 km, its width, however, varies between 30 and 1.5 km. The main navigation is urged towards the high steep right-hand shore for the major part of the water basin. In calculating the wave height, the variation of the wind velocity over the water surface on the lee shore was clarified in dependence on the height and steepness of the valley slope. The following deliberations served as a basis: The lee shore affects the wave conditions in the water basin by constituting a wind-protection zone along the shore, the width of this zone depending on the height and steepness of the valley slope. Wind-protection zones are observed not only on lee shores but also on dense wood stripes. The change of the wind velocity due to the profile in the lee-shore zone is analogous to the one in the wind-protection zone of the dense wood stripe. For this reason, the method of considering the influence of dense uninterrupted wood areas on the wind velocity was used here for determining the influence of the slopes on the wave height. The change of the wind velocity by a dense wood zone from the lee side was represented graphically on the basis of many observations by Ya. D. Panfilov

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Considering the Influence of the Lee Shore on the
Height of a Wave

SOV/50-59-4- 1/21

(Ref 2), and is given here in figure 1. On the basis of this diagram, the author compiled a computing table for the wind velocity on the lee shore according to table 1. The assumptions made are pointed out in short. On the basis of the same, the above-mentioned analogy could be maintained, and the wind velocity for any point of the lee-shore zone of influence could be computed by the formula given here. In calculating the wave height by the profiles, the wind velocity in the zone of the lee-shore influence is first calculated for distances which correspond to 5, 10, 15, 20, 25, 30, 35 and 40 times the height of the slope, whereupon the wave height for the mentioned points is determined according to the wind velocities calculated, by the nomogram by Braslavskiy (Ref 1). There are 1 figure, 1 table, and 2 Soviet references.

Card 3/3

CHIGIRINSKIY, P.F.

Estimating the surface condition of the drainage basin in runoff calculations. Trudy Kazan. fil. AN SSSR. Ser. energ. i vod. khoz. no.4:77-85 '59. (MIRA 13:8)

1. Komsomol'skaya gidrometeorologicheskaya observatoriya Privolzhskogo upravleniya gidrometeorologicheskoy sluzhby.
(Volga Valley--Runoff)

3(7),10(4)

AUTHOR: Chigirinskiy, P. F.

SOV/50-60-1-14/20

TITLE: Notes on the "Nastavleniye gidrometeorologicheskim stantsiyam i postam" (Specification for the Hydrometeorological Stations and Measuring Points), Vol 7, Part I ✓

PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 1, p 59 (USSR)

ABSTRACT: The Specification of 1957 for the Hydrometeorological Stations and Measuring Points does not supply exhaustive answers to some important questions. Two such items are dealt with here. One concerns the distance from the shore to the spot in which wave height and wave period are measured, and the other refers to recommendations for setting up range poles for the wave measurement. It is pointed out that in the first case the distance from the observation point to the range pole must be determined by the height of the observation point above the water horizon. In the second case, it is recommended that a coefficient of the ~~range pole vertical position not below 7.5 - 7.9 should be attained.~~ ✓

Card 1/1

CHIGAL, V., kand.tekhn.nauk; YEZHEK, Ya., doktor tekhn.nauk

Structure and distribution of secondary constituents in stainless austenite steel. Metalloved. i term. obr. met. no.8:17-19 Ag '60.
(MIRA 13:9)

1. Institut po zashchite materialov imeni G.V.Akimova i Nauchno-issledovatel'skiy institut materialov i tekhnologii, Praga.
(Steel, Stainless--Metallography)

CHIRINSKIY, P.F.

Effect on accurate measurements of water flow around a streamlined ship. Meteor. i gidrol. no.4:46-47 Ap '63. (MIRA 16:5)

1. Komsomol'skaya gidrometeorologicheskaya observatoriya.
(Stream measurements)

KOSHCHEYEV, A.N.; CHIGIRINSKIY, P.F.

Calculation of forced fluctuations of the levels of the Kuybyshev Reservoir caused by periodic changes in the load of the hydroelectric-power station. Trudy GGI no.113:199-207 '64.

(MIRA 17:11)

ACC NR: AP7007057

SOURCE CODE: UR/0091/66/000/009/0015/0018

AUTHOR: Stanislavskiy, L. Ya. (Candidate of technical sciences); Chigirinskiy, T. A. (Engineer)

ORG: none

TITLE: Five hundred thousand kilowatt generator from Khar'kov 'Elektrotyazhmash' Plant

SOURCE: Energetik, no. 9, 1966, 15-18

TOPIC TAGS: electric generator, electric power plant

ABSTRACT: A description of a generator plant for installation at the Nazarovskaya Regional Electric Power Station. The parameters of the generator are: power 500,000 kilowatts, 588,000 kva; $\cos \phi = 0.85$; 20,000 v; 17,000 a; 3000 rpm. Stator and rotor windings direct water cooled; stator core cooled by hydrogen at 3 atm pressure. AC exciter directly connected to generator rotor shaft feeding rotor winding through controlled mercury rectifiers. Weight of generator as assembled (without base plate) 345 tons, weight of stator (heaviest part for transportation and installation) 219 tons, weight of rotor 61.5 tons, weight of exciter with base plates 41.5 tons, efficiency of generator 98.8%. Increasing the power by 1.7 times over the TGV-300 called for a number of design changes, including a waterproof stator body, change in bearing location, movement of generator output to a location beneath the generator, etc. Orig. art. has: 4 figures. [JPRS: 39,577]

SUB CODE: 10, 09

Card 1/1

UDC: 621.313/.3

GORODETSKIY, L.N.; CHIGIRINSKIY, V.M.; NAFTULOVICH, S.M.; DANCHENKO, N.F.; YEMEL'YANOV, V.P.; BARBASHIN, B.M.

In rolling mills all over the country. Metallurg 6 no.8:25-28
Ag '61. (MIRA 14:8)

1. Rel'sobalochnyy tsekh zavoda im. Petrovskogo (for Gorodetskiy, Chigirinskiy). 2. Tsentral'naya zavodskaya laboratoriya zavoda im. Petrovskogo (for Naftulovich, Danchenko). 3. Magnitogorskiy metallurgicheskiy kombinat (for Yemel'yanov). 4. Starshiy master blyuminga zavoda im. Voroshilova (for Barbashin).
(Rolling mills)

CHIGOGIDZE, G.

Self-service stores in the Georgian S.S.R. Sov. targ. 34 no.10:27-
28 O '60. (MIRA 13:10)

1. Nachal'nik Upravleniya organizatsii trgovli i vnedreniya novoy
tekhniki Ministerstva trgovli GrusSSR, Tbilisi.
(Georgia--Self-service stores)

AGABABYAN, R. Ya.; CHIGOGIDZE, G. G.

Results of experimental construction on the comprehensive theme
"Standard apartment houses suitable for conditions in Georgia."
Trudy GPI [Gruz.] no. 4:3-10 '63. (MIRA 17:5)

CHIGIRINTSEV, I. P.

"Geography, Classification, and Properties of Cis-Don Sands and Sandy Soils (Within the Limits of Voronezhskaya Oblast)." Cand Biol Sci, Voronezh State U, Voronezh 1954. (RZhGeol, No 1, 1955)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)

SO: Sum. No. 598, 29 Jul 55

MUKHORTOV, Ya.N., kandidat sel'skokhozyaystvennykh nauk; KHIZHENYAKOV, F.G.;
CHIGIRINTSEVA, G.N.

Tillage of unfallowed fields. Zemledelie 4 no.6:45-48 Je '56.
(MLBA 9:8)

(Tillage)

Def. at
Tbilisi State U.

1937, 128 str. "Съ-
зд. (изд. 3-е, С., 1939).
1940, 1937, 110.
Издательство Ученая Кни-
гопродажа. Мемор. описание стран:
Бразилия, Австралия, 1937, 104 стр. скар-
ты. ТТФ, т. 1, 139.
3-из. 1937, 1, 109.
1942, 1937-43, 2-е издание. 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 25

Dissertation for Degree of Candidate Chemical Sciences

CHIGOGIDZE, L. P.

CHIGOGIDZE - CHANTURISHVILI, L. P.

Addition of hydrogen to acetone derivatives. XII. Incomplete
hydrogenation of an acetone derivative, their reactions and hydrogen-
ation. Yn. S. Zalkind and L. P. Chigogidze-Chanturishvili (*J.*
gen. Chem. USSR, 1958, 20, 710-726 [U.S. transl., 787-783];
cf. ibid., 1948, 18, 2149).—The ethers OR·CMe₂·C(CMe)₂·OH
 (R = Et and isopentyl) are prepared from the diol in KOH
 containing little H₂SO₄. They are readily hydrogenated (more
 rapidly than the diol, but more slowly than the diethers) to the
 ethylene and saturated compounds, and react with KOH giving
 CH₃·C·CMe₂·OR and with CuCl in air giving (·C(CMe)₂·OR)₂.

Etherification of (OH·CMe₂·C(CMe)₂)₂ (14 g.) and EtOH (32 g.)
 containing H₂SO₄ (3 ml.) at 75° (5-6 hr.) gives a mixture of mono-
 and di-ether; by reaction with EtMgBr in Et₂O and regeneration
 with acid, there is obtained pure 5-ethoxy-2 : 5-
 dimethylhex-3-yn-2-ol, C₁₀H₁₈O₂ (I), b.p. 184°, *d*₄²⁰ 0.8892, *n*_D²⁰
 1.4390. Similarly prepared is 5-isopentyloxy-2 : 5-dimethylhex-3-
 yn-2-ol, C₁₁H₂₀O₂ (II), b.p. 208-210°, *d*₄²⁰ 0.8519, *n*_D²⁰ 1.4420.
 Hydrogenation (Pd-starch-EtOH) of I proceeds rapidly at 20°

giving first 5-ethoxy-2 : 5-dimethylhex-3-en-2-ol, C₁₀H₂₀O₂, b.p.
 181-182°, *n*_D²⁰ 1.4413 (oxidized by KMnO₄ to COMe₂ and
 ORt·CMe₂·CO₂H), and then hexan-2-ol, C₆H₁₄O, b.p. 174-176°,
*d*₄²⁰ 0.8622, *n*_D²⁰ 1.4398. II similarly gives 5-isopentyloxy-2 : 5-
 dimethylhex-3-en-2-ol, C₁₁H₂₂O₂, b.p. 201-202°, *d*₄²⁰ 0.8720,
*n*_D²⁰ 1.4444 (oxidized by KMnO₄ to COMe₂ and iso-
 C₁₁H₂₂O·CMe₂·CO₂H), and then hexan-2-ol, C₆H₁₄O, b.p. 191-
 193°, *d*₄²⁰ 0.8601, *n*_D²⁰ 1.4436. Slow heating of I (8 g.) and powdered
 KOH (5.6 g.) in a distillation flask affords 2-ethoxy-, C₇H₁₄O
 (72%), b.p. 94-95°, *d*₄²⁰ 0.8000, *n*_D²⁰ 1.4040, and II similarly gives
 2-isopentyloxy-2-methylbut-3-yno-, C₁₀H₁₈O (64.5%), *d*₄²⁰ 0.8220,
*n*_D²⁰ 1.4341. I (3 g.) in boiling 50% aq. EtOH (120 ml.), containing
 CuCl (15 g.), NH₄Cl (30 g.), and HCl (3 drops), through which air
 (and later O₂) is passed for 5 hr. affords 2 : 7-diethoxy-2 : 7-
 dimethylocta-3 : 5-diyne, C₁₁H₂₀O₂ (67%), b.p. 91-92°/6 mm.,
*d*₄²⁰ 0.9001, *n*_D²⁰ 1.4794. F. S. STERN.

CA

CHIG-061DZE-CHANTURISHVILI, L.P.

10

The addition of hydrogen to acetylenic compounds. XLII.
The partial ethers of acetylene glycol, their reactions and
hydrogenation. Yu. S. Zal'kind and L. P. Chigoidze.
Chanturishvili. *J. Gen. Chem. U.S.S.R.* 29, 757-58 (1950)
(Engl. translation).—See C.A. 44, 7764a. R. M. S.

The manufacture of taurine. M. V. Vakilwalla and D.
M. Trivedi (Kesar Sugar Works, Bombay). *J. Indian
Chem. Soc., Ind. & News Ed.* 13, 150-6 (1936).—Taurine
for use in the prepn. of synthetic detergents may be made
without recourse to ethylene oxide or to pressure reactions by
using (2-aminoethyl)sulfuric acid, $\text{CH}_3\text{CH}_2\text{NH}_2\text{O}_2\text{SO}_3\text{H}$,
which is available from H_2SO_4 and $\text{HOCH}_2\text{CH}_2\text{NH}_2$ in almost
100% yield (cf. C.A. 44, 3892g). 1 (283 g.) and 3-10 g.
 Na_2SO_4 were refluxed 48 hrs. in 970 ml. H_2O , the mixt.
treated with a 23.5% soln. of CaCl_2 to remove the sul-
fate, filtered, concd. further by boiling vigorously, and
refiltered to remove NaCl , yielding 127 g. (80%) taurine;
concn. of the mother liquor gave a (possibly) ditaurine,
 $\text{NH}(\text{CH}_2\text{CH}_2\text{SO}_3\text{H})_2$, which does not require sepn. for de-
tergent use.

J. W. McC.

CHIGOGIDZE, L.P.

Synthesis and hydrogenation of isoamyl and ethyl ethers of dimethyl-
acetylenyl carbinol [in Georgian with summary in Russian]. Trudy
Inst. khim. AN Gruz. SSR 13:207-210 '57. (MIRA 11:4)
(Ether) (Hydrogenation)

CHIGOGIDZE, L.P.

Condensation of dimethylacetylenyl carbinol ethyl ether [in
Georgian with summary in Russian]. Trudy Inst. khim. AN Gruz.
SSSR 13:211-214 '57. (MIRA 11:4)
(Condensation (Chemistry)) (Ethyl ether)

LAGIDZE, R.M.; ~~CHIGOGIDZE~~, L.P.

Factors furthering menthone accumulation in the pink geranium.
Soob. AN Gruz. SSR 20 no. 3:299-306 Mr '58. (MIRA 11:7)

1. AN GruzSSR, Institut khimii im. P.G.Melikishvili. Predstavleno
akademikom L.N.Dzhaparidze.

(Menthone)
(Geraniums)

LAGIDZE, R.M.; LOLADZE, N.R.; IREMADZE, N.K.; CHIGOGIDZE, L.P.;
DVALISHVILI, A.I.

Alkylation of aromatic compounds by acetylene glycols in
the presence of anhydrous AlCl_3 . Soob. AN Gruz. SSR 23 no.1:
27-34 J1 '59. (MIRA 13:1)

1. AN GruzSSR, Institut khimii im. P.G. Melikishvili, Tbilisi.
Predstavleno akademikom P.A. Kometiani.
(Alkylation) (Glycols) (Aromatic compounds)

LAGIDZE, R.M.; CHIGOGIDZE, L.P.; IREMAZSE, N.K.; KUPRAVA, Sh.D.; SAMSONIYA, G.G.

Alkylation of benzene and its homologs by diacetates of different
γ-acetylene glycols in the presence of anhydrous aluminum
chloride. Soob.AN Gruz.SSR 25 no.1:19-26 JI '60. (MIRA 13:10)

1. Akademiya nauk Gruzinskoy SSR, Institut khimii im. P.G.Melikishvili,
g. Tbilisi. Predstavleno akademikom R.I.Agladze.
(Alkylation) (Benzene) (Glycols)

LAGIDZE, R.M.; IREMADZE, N.K.; CHIGOGIDZE, L.P.; PALAVANDISHVILI, D.A.

Reactions involved in the alkylation of benzene by disubstituted
 γ -acetylenic glycols in the presence of anhydrous $AlCl_3$. Soob.
AN Gruz. SSR 28 no.4:409-416 Ap '62.

(MIRA 18:1)

1. AN Gruzinskoy SSR, Institut khimii im. P.G. Melikishvili,
Tbilisi. Submitted February 9, 1961.

LAGIDZE, R.M.; IREMADZE, N.K.; CHIGOGIDZE, L.P.; KUPRAVA, Sh.D.;
SAMSONIYA, G.G.

Alkylation of benzene and toluene by tert- γ -acetylenic
glycols. Zhur. org. khim. 1 no.11:1965-1969 N '65.
(MIRA 18:12)

1. Institut fizicheskoy i organicheskoy khimii imeni P.G.
Melikishvili AN GruzSSR. Submitted July 7, 1963.

KHODELI, V.; CHIGGGIDZE, P., red.

[Party-state control in action] Partino-gosudarstvennyi
kontrol' v deistvii. Tbilisi, Sabchota Sakartvelo, 1965.
19 p. (MIRA 18:8)

S/058/62/000/006/085/136
A057/A101

AUTHORS: Gvilava, N. M., Nemsadze, Ye. K., Chigogidze, Z. N.

TITLE: The temperature dependence of the electric conductivity of MoO_3 single crystals

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 32, abstract 6E265
("Tr. Tbilissk. un-ta", 1960, v. 86, 459 - 464)

TEXT: The dependence of the electric conductivity σ of MoO_3 single crystals was investigated in the temperature range from -60 to $+250^\circ\text{C}$ considering the effect of thermal treatment. Two regions of linear dependence of $\log \sigma$ on $1/T$ can be observed: $220 - 280^\circ\text{K}$ with activation energy $\Delta E \approx 0.47$ ev and $380 - 430^\circ\text{K}$ with $\Delta E = 0.87 - 1.12$ ev. The reversible dependence of σ on T is observed only up to 80°C . Above 80°C , σ increases irreversibly without a change of ΔE . This is explained by the formation of oxygen vacancies in thermal treatment, which are capture centers for electrons.

P. Konorov

[Abstracter's note: Complete translation]

Card 1/1

ACCESSION NR: ^P4045203

S/0251/64/035/002/0299/0302

AUTHOR: Mirtskhulava, I. A., Chigogidze, Z. N., Kurdiani, N. I., Khvedelidze, L. V.,
Dzhanelidze, R. B., Mirianashvili, M. M.

TITLE: The possibility of obtaining high-resistance, compensated crystals of indium antimonide by heat treatment

SOURCE: AN GruzSSR. Soobshcheniya, v. 35, no. 2, 1964, 299-302

TOPIC TAGS: indium, antimony, indium antimonide, compensated crystal, crystal electrical resistance, electrical conductivity

ABSTRACT: The resistance of indium antimonide is low primarily because of the presence of impurities. Heat treatment of n-type material generates acceptor levels at $1.6-1.8 \times 10^{-2}$ eV, leading to compensation of band electrons at the residual donor impurity. A diagram shows the conductivity and Hall coefficient in relation to temperature before and after heat treatment (450C). Because of the depth of the thermal acceptor levels, it should be possible to obtain compensated indium antimonide with a resistance of several kilohm, but this turned out to be difficult to achieve because of sensitivity of the material to temperature, time of holding the temperature and the initial donor concentration. A graph of resistivity against time of heating showed a sharp maximum at

Cord 1/2

ACCESSION NR: ^pA74045203

about 2.5 hours. Up to the present, the authors have only managed to obtain 100-130 ohm-cm in p-type InSb having a hole concentration of 10^{13} cm^{-3} , while maintaining a high carrier mobility of $5 \times 10^3 \text{ cm}^2/\text{V-sec}$, but higher resistivities are expected in the near future. Crystals of the material were tested in fast, clamping switches of the breakdown type. The low breakdown voltage (40V/cm) and fast recovery time (microsec.) hold considerable promise. "The authors acknowledge aid from L.S. Khitarishvili, I.M. Purtselaadze, Ye. K. Nemsadze, A.V. Matveyenko and V.G. Avalinai." Orig. art. has: 2 figures.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tiflis State University)

SUBMITTED: 16Apr64

ENCL: 00

SUB CODE: ES, IC

NO REF SOV: 001

OTHER: 001

Card 2/2

L 24136-65 EWT(m)/EWP(b)/EWP(t) IJP(c) JD
ACCESSION NO. 126003062

AUTHORS: Chigoidze, Z. N.; Nemsadze, Ye. K.; Khvedelidze, I. V.; Matveyenko, A. V.

TITLE: The nature of thermal acceptor centers in indium antimonide

SOURCE: AN GruziSR. Soobshcheniya, v. 36, no. 3, 1964, 541-546

TOPIC TAGS: indium antimonide, heat treatment, semiconductor property

ABSTRACT: The authors studied the effect of the external environment on changes in electrical properties of InSb during heat treatment. Investigations of the changes in the properties of n-type InSb (1. x 10¹⁸ cm⁻³) on annealing showed the Hall emf was made by the presence of acceptor centers. Specimens were annealed in a vacuum, in argon, in air, and in oxygen at 400°C. Specimens were annealed for 25-50 hours, depending on atmosphere, and were then slowly cooled to room temperature over a period of 50 hours. The temperature dependence of conductivity and Hall effect are illustrated in Figs. 1-3 on the Enclosures. It is shown that the changes caused by annealing appear in the impurity band. Despite the type of atmosphere, all specimens showed a change from n- to p-type conductivity.

Card 1/5

L 24136-65

ACCESSION NR: AP5003269

Computations show that the observed changes in electrical properties cannot be explained by removal of Sb from the lattice. The authors conclude that the cause for the appearance of acceptor centers in heat-treated InSb must be sought apparently in contamination of the specimen during annealing. Orig. and 3 figures and 2 tables.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State University)

SUBMITTED: 15Aug64

ENCL: 03

SUB CODE: SS

NO REF SOV: 007

OTHER: 003

Card 2/5

L 24136-65

ACCESSION NR: AP5003269

ENCLOSURE: 01

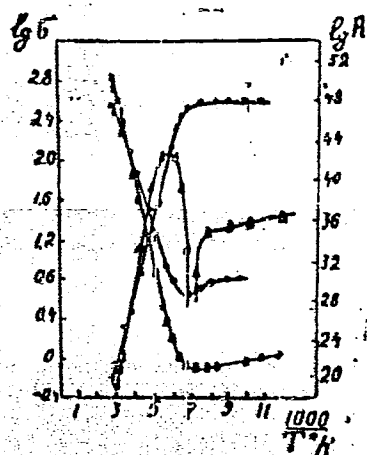


Fig. 1. Temperature dependence of electrical conductivity and the Hall coefficient of specimen No. 16, annealed in a vacuum (• - before annealing, ▲ - after annealing).

Card 3/5

1 24136-65

ACCESSION NR: AP5003269

ENCLOSURE: 02

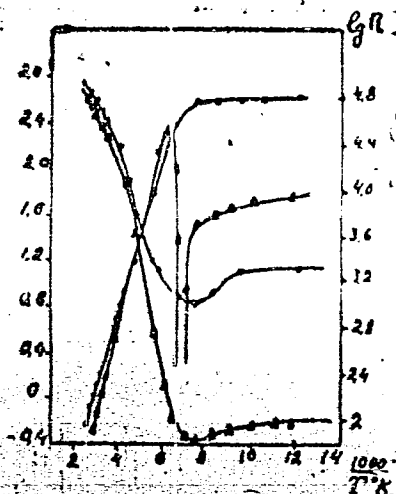


Fig. 2. Temperature dependence of electrical conductivity and Hall coefficient in specimen No. 23, annealed in antimony vapor (• - before annealing, Δ - after annealing).

Card 1/5

L 24136-65
ACCESSION NR: AP5003269

ENCLOSURE: 03

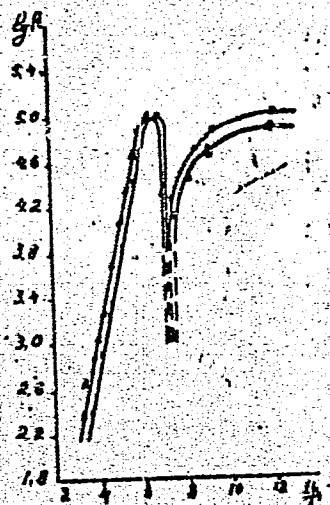


Fig. 3. Temperature dependence of the Hall coefficient in specimen No. 37, annealed in a vacuum, and in specimen No. 42, annealed in antimony vapor (● - specimen No. 27, ▲ - specimen No. 42).

Card 5/5

ZOTKIN. I.T.; CHIGORIN, A.N.

Observations of Venus in 1949 and 1950. Biul.VAGO no.12:3-9
'53. (MLRA 7:3)

1. Moskovskoye otdeleniye VAGO, otdel planet i Lunny.
(Venus (Planet))

ZOTKIN, I.T. (Moskva); CHIGORIN, A.N. (Moskva)

Using computers for processing statistics of visual observations
of meteors. Biul.VAGO no.30:45-52 '62. (MIRA 15:8)

1. Moskovskoye otdeleniya Vsesoyuznogo astronomo-geodezicheskogo
obshchestva, meteornyy otdel.
(Electronic analog computers) (Meteors)

L 17637-05 ENT(1)/EMP(m)/FCS(2)/RAA(0)
 ASD(p)-3/AEDC(a)/SSD/SSD(a)/ASD(m)-3/AS(mp)-2/SSD(c)/AFETR/RAEN(d)/ESD(dp)/ESD(tv)
 ASD(f)-2
 S/0294/64/002/006/0860/0868
 ACCESSION NR: AP5001149

AUTHOR: Bronshten, V. A.; Chigorin, A. H.

TITLE: Establishing the equilibrium ionization and temperature in a strong shock wave in air

SOURCE: Teplofizika vysokikh temperatur, v. 2, no. 6, 1964, 860-868

TOPIC TAGS: shock wave, strong shock wave, ionization, equilibrium ionization, kinetic equation, electron collision, electron concentration, electron temperature, electron diffusion

ABSTRACT: The results obtained from numerical calculations of the kinetics of ionization and of variations in ionic and electronic temperatures behind a strong, shock-wave front are presented. Elementary processes in nonequilibrium regions are outlined and previous papers on the subject are discussed. The computations, which made use of kinetic equations for strong, shock-wave ionization, were performed in the Computing Center of the Academy of Sciences SSSR with initial ionic-temperature values $T_i = 5 \times 10^4$, 5.8×10^4 , and 2×10^6 C, air densities in the shock wave of 10^{20} and 10^{18} atom/cm³, and an initial

Card 1/2

L 17657-65

ACCESSION NR: AP5001149

relative electron concentration of 10^{-2} . Conservation of the Boltzman distribution in all electronic levels at temperature T_e behind a shock wave is assumed. Time dependences of electron densities and temperatures are presented in graphs and analyzed. Equilibrium ion concentrations and temperatures are established for initial conditions rather rapidly in 10^{-7} to 10^{-10} sec. In conclusion, the author states that the process can be divided into three sections: 1) the initial section, 2) the "avalanche ionization" section, and 3) the section for temperature and establishing equilibrium. The sequence of stages of different ionization stages and the ratio of concentrations of different multiplicity are determined by the ratio of ionization coefficients. Orig. art. has: 9 figures and 5 formulas.

ASSOCIATION: Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva AN SSSR (Moscow Branch of the All-Union Astrogeodetic Society, Academy of Sciences, SSSR)

SUBMITTED: 20Nov63

ENCL: 00

SUB CODE: ME

NO REF SOV: 008

OTHER: 002

ATD PRESS: 3152

Cord 2/2

CHIGORIN, A.N.; TSVETKOV, V.I.

Determining the density of the Delta Aquarid meteor stream in 1962.
Biul. VAGO no.35:28-33 '64. (MIRA 18:4)

1. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva, meteornyy otdel.

NIKOLAYEV, Viktor Georgiyevich; CHIGOYEV, Iosif Zakharovich; BEDRAK, T.V..
red.; DZGOYEV, A.A., tekhn.red.

[Distribution and cultivation of fruit and berry species and
varieties in North Ossetia] Razmeshchenie porod i sortov plodovo-
iagodnykh kul'tur i ukhod za nimi v usloviakh Severnoi Osetii.
Ordzhonikidze, Severo-Osetinskoe knizhnoe izd-vo, 1960. 57 p.
(MIRA 14:3)

(Ossetia--Fruit culture)

PAKA, V.T.; NAUMENKO, M.F.; TATARENKO, Ye.V.; CHIGRAKOV, K.I.; SHMATKO, B.A.

Recording electrothermobathysonde with cable communication
lines. Trudy Inst. okean. 74:62-66 '65. (MIRA 18:12)

L 36071-66 EWT(1) GW
ACC NR: AT6017052

SOURCE CODE: UR/2566/65/074/000/0062/0066

(N) 31
AUTHOR: Paka, V. T.; Naumenko, M. F.; Tatapenko, Ye. V.; Chigrakov, K. I.; Shmatko, B. A.

ORG: none*

TITLE: Electrical thermobathygraph¹² with cable connection

SOURCE: *AN SSSR. Institut okeanologii. Trudy, v. 74, 1965, Elektronnyye pribory dlya okeanologicheskikh issledovaniy (Electronic instruments for oceanological research), 62-66

TOPIC TAGS: measuring device, heat measurement, ocean property

ABSTRACT: An instrument for measuring temperature^{4M} and depth of the upper reaches of the sea is discussed. The apparatus has two separate channels, each consisting of a dc bridge. The temperature probe, a thermistor with a resistivity of 1.3 kΩ at 20°C, forms one arm of the bridge and the remaining three arms (consisting of fixed and variable resistors) balance fluctuations of the galvanometer. The depth probe (in the form of an electrical membrane) is connected to its bridge in the same manner. Both measurements are made with a single meter which is switched manually from one bridge to the other. A schematic of the instrument is given and the mounting of each probe is de-

Card 1/2

L 36071-66

ACC NR: AT6017052

scribed and sketched. Tests show that the accuracy of temperature measurement is 0.10° and that of depth measurement is 0.5 m. Orig. art. has: 3 figures.

SUB CODE: 09,14/ SUBM DATE: none/ ORIG REF: 002

Card 2/2 vmb

IVANOV, V.N.; ORDANOVICH, A.Ye.; CHIGRAKOV, K.I.

Investigation of transducers for the measurement of low flow speeds
under natural conditions. Nauch.dokl.vys.shkoly; elektromekh. i avtom.
no.1:156-164 '59. (MIRA 12:11)

1. Rekomendovana kafedroy fiziki morya i vod sushi Moskovskogo gos-
universiteta.

(Anemometer)

I 22202/61 7/15/61 102

S/0169704 10/1/61

SOURCE: *rel. zh. Geofizika. Abs.*, 10V28

WITH: *rel. zh. Geofizika. Abs.*, V. T.; Stenina, M. A.; Tikhonov, V. I.

NOTE: *rel. zh. Geofizika. Abs.* for investigation of some of the mixing

CITED SOURCE: *Sb. Materialy 2 Konferentsii po probl. Vzaimodeystviye atmosf. i morskoykh voln. (Morskoye i atmosf. volny, Leningrad, 1961, 1962)*

TOPIC TAGS: hydrology, hydrological instrument, turbulent mixing, oceanography, thermohydrometer

TRANSLATION: The authors describe a set of instruments for the investigation of turbulent mixing by direct methods. It was developed by the Institute of Oceanography AN SSSR (Kaliningrad branch). The mean velocity sensor is a thermohydrometer with semiconductor thermoresistors (HMT-1 and HMT-9); they were used with indirect heating by a direct current (a heating wire of manganan is wound on the lacquer-coated body of the thermoresistor). The accuracy of recording is 1%.

L 23381-65
ACCESSION NR: AR5002531

inertia is 1-30 sec. The maximum linear dimension is not more than 15 mm. Velocity fluctuations are recorded using a corner sensor of 2 nickel wires 100μ in diameter which are stretched at right angles to one another. The sensor is used to measure the angle of deviation of the velocity vector from the axis of the sensor in the plane of the wires and also the instantaneous velocity; the components are computed from the angle and modulus of velocity. With the sensor in a vertical position it is possible to record the vertical fluctuations; when in a horizontal position -- the transverse fluctuations. Sensitivity of the sensor is about 1 mm/sec per 1 mm of the record; inertia is about 0.01 sec. Temperature was measured by a group of thermocouples or by a MT-54 thermistor. Sensitivity of the temperature sensors is 0.005 /mm. All data obtained under field conditions were analyzed in the office using semiautomatic correlators. The described apparatus was used for a study of mixing in shallow water (in the Liyelupe River). The derived data characterize the turbulent system of discharge and wind currents in a river under homogeneous thermal conditions. K. Chernoskutov.

SUB CODE: ES

ENCL: 00

Cord 2/2

PAKA, V.T.; MAKUSHKIN, V.P.; NAUMENKO, M.F.; CHIGRAKOV, K.I.

Lowering counters from a moving ship. Okeanologiya 4 no.1:128-131
'64. (MIRA 17:4)

1. Kaliningradskoye otdeleniye Instituta okeanologii AN SSSR.

ACCESSION NR: AP4031110

8/0213/64/004/002/0313/0314

AUTHORS: Paka, V. T.; Naumenko, H. F.; Chigrakov, K. I.

TITLE: A device for displacing remote pickups from the side of a ship

SOURCE: Okeanologiya, v. 4, no. 2, 1964, 313-314

TOPIC TAGS: remote pickup, telemetry, temperature measurement, ocean temperature, oceanographic equipment

ABSTRACT: The authors have designed a piece of equipment to permit measurement of temperature in undisturbed layers of water some distance from the side of a ship (15 m). The device is called a diverter and is illustrated in Fig. 1 on the Enclosures. The method of using it is shown in Fig. 2 on the Enclosures. It is held to the ship by a cable attached to the end of the vane, and its horizontal and vertical positions are controlled by the two rudders at the tail end of the frame. All parts are made of sheet steel 3 mm thick and of angle braces 50/50 mm, joined by welding or by bolts. For rigidity, the vane consists of two sheets of steel. Disturbance due to the diverter itself and of the cable may be neglected if small temperature variations within horizontal distances less than a meter are discarded.

Card 1/4

ACCESSION NR: AP403111Q

An example of the record obtained from this device has been published in a different paper by the authors (Okeanologiya, t. 4, No. 1). Orig. art. has: 2 figures.

ASSOCIATION: Kaliningradskoye otdeleniye Instituta okeanologii AN SSSR (Kalinograd Division, Institute of Oceanology, AN SSSR)

SUBMITTED: 00

DATE ACQ: 01May64

ENCL: 02

SUB CODE: IE, ES

NO REF SOV: 000

OTHER: 000

Card 2/4

ACCESSION NR: AP1031110

ENCLOSURE: 01

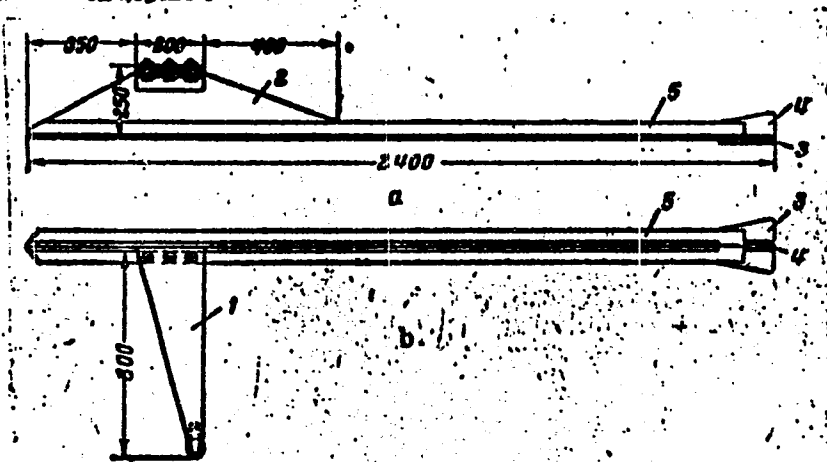


Fig. 1. The diverter

a - side view; b - plan view; 1 - vane; 2 - leeboard; 3 - horizontal rudder; 4 - vertical rudder; 5 - frame. (Dimensions given in mm).

Card 3/4

ACCESSION NR: AP4031110

ENCLOSURE: 02

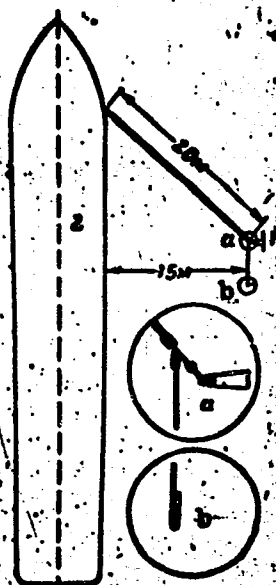


Fig. 2. Deflection of temperature pickup (1) from side of ship (2) a - fastening of cable to vane of diverter; b - temperature pickup.

Card 4/4

ACC NR: AT6035083

(M) SOURCE CODE: UR/3095/66/035/000/0003/0012

AUTHORS: Kolesnikov, A. G.; Isayev, I. L.; Isayeva, L. S.; Naumenko, M. F.; Chigrakov, K. I.; Shutov, A. P.

ORG: none

TITLE: The macrostructure of the temperature field on the ocean surface

SOURCE: AN UkrSSR. Morskoy gidrofizicheskii institut. Trudy, v. 35, 1966. Gidrofizicheskiye i gidrokhimicheskiye issledovaniya tropicheskoy zony Atlantiki (Hydrophysical and hydrochemical research in the tropical zone of the Atlantic), 3-12

TOPIC TAGS: temperature distribution, ocean dynamics, research ship

ABSTRACT: The purpose of this paper is to investigate the temperature field of the ocean surface--the interface between hydrosphere and atmosphere over the ocean. This temperature field is a function of the intensity of vertical heat exchange in both media, the transfer of heat by ocean currents and winds, and also of "boundary" turbulence associated with the specific characteristics of the interface. Data for this study were obtained by making continuous records of the temperature of the surface water during passage of the Russian research ship Mikhail Lomonosov. A thermistor device was used, and the record was made by means of a self-recording EPP-09 potentiometer. Inertial lag in the record amounted to 0.3 sec. Analysis of curves of spectral density (drawn for three oceanic traverses) shows that the

Card 1/2

ACC NR: AT6035083

dependence of the spectral density on wave number follows the "5/3 law" rather well, both for the open ocean and for near-shore zones, but the relation is not smoothly rectilinear. The spectra display a series of maximums, reflecting secondary sources acting at fixed intervals of wave numbers. These are related to dynamics of the water as a result of vortical movements and thermally induced changes (from invading currents, rise of water from depth, cloudiness that causes irregular heating by solar radiation, interaction of atmospheric fronts, etc). The actual spectral density of temperature fluctuations for the open ocean is approximately one order less than for the near-shore parts of the ocean. In the middle-scale region (of wave numbers), a minimum of spectral density occurs, characteristic of a number of meteorological elements such as heat flux, air temperature, wind velocity, and pressure. Orig. art. has: 3 figures and 4 formulas.

SUB CODE: 08/

SUBM DATE: none/

ORIG REF: 004/

OTH REF: 001

Cord 2/2

ACC NR: AT6023559

(N)

SOURCE CODE: UR/3095/66/036/000/0103/0107

AUTHOR: Isayev, I. L.; Naumenko, M. F.; Chigrakov, K. I.; Shutov, A. P.

ORG: None

TITLE: Measurement of ocean surface temperature by a ship underway

SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 36, 1966. Metody i pribory dlya issledovaniya fizicheskikh protsessov v okeane (Methods and instruments for studying physical processes in the ocean), 103-107

TOPIC TAGS: ~~oceanographic equipment~~, oceanographic instrument, oceanographic ship, oceanography, thermistor, thermal analysis, thermometry, temperature instrument, temperature measurement, temperature sensitive element, sea water

ABSTRACT: An improved version of a low-inertial apparatus, and methods of measuring ocean surface temperatures under natural conditions, have been worked out in the Maritime Hydrophysical Institute of the Academy of Sciences of the Ukrainian SSR from measurements made regularly aboard Mikhail Lomonosov since 1959. The Karmanov semiconductor thermoresistance systems are used for temperature measurements. However, Soviet-produced glass thermistors (the MT-54, for example) are unreliable at sea, so a special well for the thermal unit was devised. The new apparatus is shown in cross section and a brief description of its structure and characteristics is given. It is accurate to within 0.01°C. The direct current bridge used is described

Card 1/2

ACC NR: AT6023559

and its wiring diagram presented. The use made of the instrument aboard Mikhail Lomonosov is described, and the practical work done at sea has proven that the apparatus and the methods used are reliable and sufficiently sensitive for use in researching the temperature field of the ocean surface, and are so recommended. Orig. art. has: 2 figures.

SUB CODE: 08 /SUBM DATE: None/ORIG REF: 004

Card 2/2

DOLGUSHIN, I.P.; ONICRAY, D.T.

Results of experimental studies of errors of precipitation-measuring instruments at the Gorkiy Hydrometeorological Observatory. Trudy GGO no.155-163 '65. (MIRA 18:8)

1. Gor'kovskaya gidrometeorologicheskaya observatoriya.

LUKICH, L.Ye.; BRANDT, V.A.; CHIGRAY, I.D.; VARNAVSKIY, I.N.

Calcining limestone in rotary kilns. Metallurg 5 no. 12:43
D '60. (MIRA 13:11)

(Belgium--Line)

APANAS'YEV, S. G., kand.tekhn.nauk; EPSHTEYN, Z. D., inzh.;
KRIVCHENKO, Yu. S., inzh.; GUREVICH, B. Ye., inzh.; KOZIN, G. N., inzh.;
RUBINSKIY, P. S., inzh.; KUKURUZNYAK, I. S., inzh.; GUL'YEV, G. F.,
inzh.; CHIGRAY, I. D., inzh.

Operation of the "Krivorozhstal'" converter plant. Biul. TSIICHM
no.5:12-16 '61. (MIRA 14:10)
(Krivoy Rog—Metallurgical plants)
(Converters)

GUL'YEV, G.F., inzh.; KRIVCHENKO, Yu.S., inzh.; BOL'SHAKOV, V.A., inzh.;
KUDRINA, A.P., inzh.; LEBEDEV, S.Ye., inzh.; CHIGRAY, I.D., inzh.;
SERVETNIK, V.M., inzh.

Converter smelting with partial use of tap cinder. Stal' 24
no.10:881-884 0 '64. (MIRA 17:12)

CHIGRAY, Ivan Dmitriyevich; KRIVCHENKO, Yuriy Sergeyevich

[Converter operator assistant] Podruchnyi konverter-
shchika. Moskva, Metallurgiya, 1965. 169 p.
(MIRA 18:4)

CHIGRAY, I.D., inzh.; KUDRINA, A.P., inzh.; GUL'YEV, G.F., inzh.;
SIZENKO, A.S., inzh.

Preparation for the operation of an oxygen-blown converter
lined with unfired resin binder refractories. Stal' 25
no.4:325-326 Ap '65. (MIRA 18:11)

CHIGRAY, V.

PA 41/49T106

USSR/Radio Transceivers
Fire Fighting

Mar 49

"Radio in the Forest Economy," V. Chigray, 1 p

"Radio" No 3

Portable transceivers will be widely used in forestry. They will be supplied to leaders of fire-fighting brigades and search parties. Portable transceivers, which are needed now, have still not been produced by Soviet industry.

41/49T106

CHIGRAY, V.

FA 51/49T78

USSR/Communications
Radio Communications
Radio, Ship/Shore

Jun 49

"In the Fishing Industry," V. Chigray, 1 p

"Radio" No 6

All large trawlers are generally equipped with radio and with navigation and emergency radio units. In last few years, even smaller trawlers have been radio equipped. Radio operators on whaling ships are apparently required to communicate with Moscow daily, an average of 6,000 - 7,000 words being exchanged each 24 hours. Radio

51/49T78

USSR/Communications (Cont.) Jun 49

operators now being trained in DOSAEM radio clubs will find many opportunities in the fishing industry.

51/49T78

CHIGRAY, V.

Concern for agricultural workers of the Altai. Zdorov'e 2 no.11;24
N '56. (MIRA 10;1)
(ALTAI TERRITORY--RECLAMATION OF LAND)

FAYERMAN, D.V.; CHIGRIN, D.S.

Complexometric method of determination of copper in petroleum
products. Trudy BOMZ no.1:31-35 '63. (MIRA 16:6)

(Copper—Analysis)
(Petroleum products—Analysis)

FAYERMAN, D.V.; CHIGRIN, D.S.

New method of determination of the soap content of calcium
lubricants. Trudy BONZ no.1:35-38 '63. (MIRA 16:6)

(Lubrication and lubricants)
(Soap--Analysis)

FAYERMAN, D.V.; CHIGRIN, D.S.

Complexometric determination of manganese catalysts in paraffins.
Zav.lab. 30 no.3:288 '64. (MIRA 17:4)

1. Berdyanskiy opytyny nefte-masloboynnyy zavod.

S/065/63/000/001/005/005
EO75/E436

AUTHORS: Fayerman, D.V., Chigrin, D.S.

TITLE: Complexometric determination of barium in lubricating oil additives

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.1, 1963, 64-65

TEXT: Due to unsatisfactory colour change during direct titration of Ba ions with Trilon B in the presence of acid chrome blue-black indicators, the method was modified whereby the excess of Trilon B is back titrated. The back titration is carried out with a 0.02 N $MgCl_2 \cdot 6H_2O$ or $MgSO_4 \cdot 7H_2O$ solution. Good results are obtained especially for dilute ($\sim 0.001 M$) solutions of Ba. The modified method was used successfully (giving results agreeing well with gravimetric method ГОСТ 7187-58 (GOST 7187-58) for the determination of Ba in ЦИАИМ-339 (TsIATIM-339) and АЭНМ-ЦИАИМ-1 (AzNII-TsIATIM-1) additives.

ASSOCIATION: Berdyanskiy opytnyy neftemaslozavod
(Berdyansk Experimental Refinery)

Card 1/1

GHIGRIN, N. N.

Viticulture

Urgent tasks of northern viticulture. Sad i og. No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____ 1953. Unclassified.

CHIGRIN, V.N.

Agrotekhnika vyrashchivaniia vinograda v Tambovskoi oblasti [Agrotechnology
of grape cultivation in Tambov Province]. Tambov, Izd-vo Tambovskaiia provda, 1952.
76 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

NEGRUL', Aleksandr Mikhaylovich, CHIGRIN, V.N., KUZ'MIN, A.Ya.,; TAIROVA,
V.N., red.; BALLOD, A.I., tekhn. red.

[Viticulture] Kul'tura vinograda. Izd. 2. Moskva, Gos. izd-vo
sel'khoz.lit-ry, 1958. 246 p. (MIRA 11:11)
(Viticulture)

COUNTRY : USSR
CATEGORY : Cultivated Plants. Fruits. Berries. M
ABS. JOUR. : RZhBiol., No. 23 1958, No. 104838
AUTHOR : Chigrin, V. N.
INST. : ~~Chigrin, V. N.~~
TITLE : On the Value of Tip Layering in Northern Regions
of Viticulture.
ORIG. PUB. : Sad i Ogorod, 1958, No. 4, 76
ABSTRACT : No abstract.

CARD: 1/1

146

BELOKHONOV, I.V., kand.sel'skokhoz.nauk; LOBANOV, G.A., kand.sel'skokhoz.
nauk; NOVIKOV, A.A., kand.sel'skokhoz.nauk; STEPANOV, S.N.,
kand.sel'skokhoz.nauk; ~~CHIGRIN, V.N.~~; kand.sel'skokhoz.nauk;
OZEROV, V.N., red.; DEYEVA, V.M., tekhn.red.

[Fruit culture] Plodovodstvo. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1960. 334 p. (MIRA 14:1)

1. Nauchno-issledovatel'skiy institut sadovodstva imeni I.V.
Michurina (for Belokhonov, Lobanov, Novikov, Stepanov, Chigrin).
(Fruit culture)

PRONIN, M.Ye., prof.; CHIGRIN, V.V., aspirant

Improving the forage quality of corn by efficient use of
fertilizers. Zhivotnovodstvo 24 no.6:49-51 Je '62.
(MIRA 17:3)

1. Voronezhskiy sel'skokhozyaystvennyy institut.

CHIGRIN, V.V.; ALESHIN, Ye.P.

Oxidation of phenols by leaf homogenates of two spring wheat varieties differing in their resistance to stem rust. Fiziol. rast. 12 no.4:653-658 J1-Ag '65. (MIRA 18:12)

1. Severo-Kavkazskiy nauchno-issledovatel'skiy institut fitopatologii, Krasnodar. Submitted October 6, 1964.

SHUMAYEV, V.D., nauchnyy sotrudnik; NEVSKAYA, A.I., nauchnyy sotrudnik;
SHANINA, T.N., nauchnyy sotrudnik; DMITRIYEVA, V.P., nauchnyy
sotrudnik; VOLKOV, D.G., nauchnyy sotrudnik; CHIGRINA, T.A.,
khimik

Waste waters from the Leninogorsk Polymetallic Combine
and their effect on the open water reservoirs of the city.
Gig. i san. 28 no.7:69-73 J1 '63. (MIRA 17:1)

1. Iz otdela gigiyeny Kazakhskogo instituta epidemiologii,
mikrobiologii i gigiyeny i Respublikanskoy sanitarno-epi-
demiologicheskoy stantsii.

LEMAKIN, A. N.; SIMONOV, A. M.; CHIGRINA, V. A.

Derivatives of benzimidazole. Part 12: Action of sodium amide
on N-alkylbenzimidazoles substituted in the position 5. Zhur.
ob. khim. 33 no.1:204-207 '63. (MIRA 16:1)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

(Benzimidazole) (Sodium amide)

KIRSHENBLAT, Ya.D.; GRECHISHKINA, A.P. [Hrechyshkina, A.P.]; SERBENYUK, V.N.
[Serbeniuk, V.M.]; CHIGRINA, Z.G. [Chyhrina, Z.H.]

Effect of the parasympathetic nervous system on the sensitivity of the
ovaries to hormones. Fiziol. zhur. [Ukr.] 8 no.4:524-531 J1-Ag '62.
(MIRA 18:4)

1. Kafedra normal'noy fiziologii Chernovitskogo meditsinskogo
instituta.

VDOVICHENKO, Sergey Georgiyevich; CHIGRINETS, I.A., red.; SOBOLEVA,
Ye.M., tekhn.red.

[Reference book for researchers] Sputnik inyatelis; kratkoe
spravochnoe posobie. Moskva, Gos.energ.isd-vo, 1959. 235 p.
(MIRA 13:3)

(Engineering geology)

KASHCHAYEV, G.N.; TSEFT, A.L.; CHIGRINEVA, A.I.

Extraction of manganese from ores of the Ikat-Garga deposit by means
of a calcium chloride solution. Trudy Vost.-Sib.fil. AN SSSR no.25:
12-20 '60. (MIRA 13:9)

(Manganese)

(Calcium chloride)

KASHCHEYEV, G.N.; TSEFT, A.L.; CHIGRINEVA, A.I.

Extraction of manganese from ores of the Ikat-Garga deposit by means
of a sulfuric acid solution. Trudy Vost.-Sib.fil. AN SSSR no.25:
21-26 '60. (MIRA 13:9)

(Manganese)

(Sulfuric acid)

SUKHORUKOV, V.Ya.; NEMOV, A.; KURITSYN, A.L., dorozhnyy master (Yaroslavl'); NAYMUSHIN, A.A.; VARNAKOV, I.A., kursant (g.Uglich); ALEKSEYEV, Ye.V., mostovoy master (stantsiya Belev, Moskovskoy dorogi); CHIGRINOV, A.P.

Letters to the editor. Put' i put.khoz. 4 no.3:45 Mr '60.
(MIRA 13:5)

1. Nachal'nik otдела mekhanizatsii sluzhby puti, Smolensk (for Sukhorukov). 2. Brigadir puti, stantsiya Penza III, Kuybyshevskoy dorogi (for Nemov). 3. Starshiy dorozhnyy master, g.Sevastopol' (for Naymushin). 4. Dorozhnyy master, raz'yezd 225-go kilometra, Kazakhskoy dorogi (for Chigrinov).
(Railroads)